BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Construction of Hospital Building at Ward No-11 (Kuvempunagara) in Vidyaranayapura Sub Division

Modified Estimation

Client	**Sri.C.N.S Murthy #12,3rd cross, S.V.G.N.S.S Layout,3rd stage, 4th Block, Basaveshwaranagar, Banglore-560 079**

Estimation Cost **31385567.16**

SL. NO	Description of Item.	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
Item No.205	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.								
	Item Not Operated								
Item No.206	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip 25x3mm								
	Item Not Operated								
Item No.207	600x600x3mm GI Plate								
	Item Not Operated								
Item No.208	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 10 sqmm								
	Item Not Operated								
Item No.209	4 core 16 sqmm								
	Item Not Operated								
Item No.210	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm								
	Item Not Operated								
Item No.211	25 sqmm to 75 sqmm								
	Item Not Operated								
Item No.212	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.In soil (ordinary)								
	Item Not Operated								
Item No.213	Asphalt cutting								
	Item Not Operated								
Item No.214	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable.								
	Item Not Operated								
Item No.215	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia								
	Item Not Operated								
Item No. 216	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 32mm dia								
	Item Not Operated								
Item No. 217	Supplying and fixing 2mm thick perforated cable tray with powder coated paint on existing MS angle support using necessary GI bolts/nuts and washer or welding as required 300x50mm								

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SL. NO	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
	Item Not Operated								
Item No. 218	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables. 40mm OD / 32mm ID								
	Item Not Operated								
Item No. 219	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables. 50mm OD / 38mm ID								
	Item Not Operated								
Item No. 220	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 1.5 sqmm								
	Item Not Operated								
Item No. 221	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 2.5 sqmm								
	Item Not Operated								
Item No. 222	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 4 sqmm								
	Item Not Operated								
Item No. 223	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 6 sqmm								
	Item Not Operated								
Item No. 224	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 10 sqmm								
	Item Not Operated								
Item No. 225	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm								
	Item Not Operated								
Item No. 226	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 35 sqmm Long Barrel								
	Item Not Operated								
Item No. 227	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG								
	Item Not Operated								
Item No. 228	Supplying and drawing PVC flexible one pair telephone unarmoured tinned copper cable. 2Pair								
	Item Not Operated								
Item No. 229	Constructing brick masonry inspection chamber 600x600mm and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non- modular bricks of class designation 50 in cement mortar 1:5, C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C top slab with cement concrete M 15 with 20mm and down size granite metal, foundation concrete M5 with 40mm and down size granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, HOM of machineries complete as per specifications. Specification no. KBS								
	Item Not Operated								

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									Estimation Cost	31385567.16
SL. NO	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	
Item No. 230	Providing and fixing unplasticised PVC pipes 10.00 kg/sq.cm working pressure chemp plast/wavin or equivalent make with pipe fittings, clips, making good the floor , including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. do- with 90mm outer dia									
	Item Not Operated									
Item No. 231	Providing and fixing unplasticised PVC pipes 10.00 kg/sq.cm working pressure chemp plast/wavin or equivalent make with pipe fittings, clips, making good the floor , including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. do- do- with 110mm outer dia									
	Item Not Operated									
Item No. 232	Providing and fixing unplasticised PVC pipes 10.00 kg/sq.cm working pressure chemp plast/wavin or equivalent make with pipe fittings, clips, making good the floor , including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. do- do- with 160mm outer dia									
	Item Not Operated									
Item No. 233	Providing and fixing white vitreous china clay, **water closet europeon type** (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. Specification no.KBS 11									
	Item Not Operated									
Item No. 234	Providing and fixing white vitreous china clay,flat back or half stall **urinal basin** of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets ,standard flush pipe and C.P brass spreaders with brass unions and G.I clamps, C.I trap with outlet grating and other couplings in C.P brass, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.									
	Item Not Operated									
Item No. 235	Providing and fixing white vitreous china clay,flat back **wash basin** size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets ,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.									
	Item Not Operated									
Item No. 236	Providing and fixing C.P brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specifications.									
	Item Not Operated									
Item No. 237	Providing wash basin brackets of approved 1st qyuality and make confirming to ISI specifications and fixing for low down cistern as directed. Rate includes cost of materials and conveyance to work spot.									
	Item Not Operated									
Item No. 238	Providing pedestal for wash basin of approved 1st qyuality and make confirming to ISI specifications and fixing for low down cistern as directed. Rate includes cost of materials and conveyance to work spot.									
	Item Not Operated									
Item No. 239	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia.									
	Item Not Operated									
Item No. 240	Providing **stoneware gully trap** of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). 15x15cms									
	Item Not Operated									

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									Estimation Cost	31385567.16
SL. NO	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	
Item No. 241	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe. 110 mm dia									
	Item Not Operated									
Item No. 242	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe. do- 160mm dia									
	Item Not Operated									
Item No. 243	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 244	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 245	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 246	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end)do- 25mm dia nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 247	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end)do- –do– 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 248	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end)do- –do– 40mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 249	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end)do- –do– 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 250	Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 300 mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 251	Providing and fixing in position 40mm nominal bore non return valve vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									
Item No. 252	Providing and fixing in position do- 40mm dia including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.									
	Item Not Operated									

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Estimation Cost **31385567.16**

SL. NO	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
tem No. 253	Providing and fixing in position do- 63mm dia including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.								
	Item Not Operated								
tem No. 254	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 Litre capacity) as per IS 12701 1996.								
	Item Not Operated								
em No. 255	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for not and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 15mm nominal OD pipes								
	Item Not Operated								
No. 256	20mm nominal OD pipes								
	Item Not Operated								

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								Estimation Cost		**31385567.16**
L. NO	**Description of Item**	**Unit**	**No**	**Length (m)**	**Breadth (m)**	**Depth (m)**	**Quantity**	**Rate Rs**	**Amount Rs**	
m No. 257	25mm nominal OD pipes									
	Item Not Operated									
m No. 258	32mm nominal OD pipes									
	Item Not Operated									
E1	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.									
		Cum	From Calculation Sheet (Volume Report)				3524.67			
							Total Executed Quantity	**3524.67**		
							Now To be Paid Qty	**3524.67**	**79.26**	**279353.14**
E2	KSRB 2-2.4 : Excavation 1.5m and above in width in soft rock without blasting for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches not exceeding 1.5 m. in depth, stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.C / 2.9.4 / 2.18 / 2.19									
	Combined Footing									
	CF1	Cum	1	7.65	5.20	2.8	111.38			
	CF2	Cum	1	4.40	4.70	2.8	57.90			
	Isolated Footings									
	C2	Cum	4	4.50	3.90	2.80	196.56			
	C3	Cum	4	3.60	3.60	2.80	145.15			
	Retaining Wall									
	Easternside	Cum	1	47.27	2.8	0.95	125.74			
	Deduction									
	for Footing									
	C2	Cum	4	3.90	2.80	0.95	-41.50			
	C3	Cum	3	3.60	2.80	0.95	-28.73			
	LB	Cum	1	3.38	2.80	0.95	-8.98			
		Cum								
							Total Executed Quantity	**557.54**		
							Now To be Paid Qty	**557.54**	**1029.17**	**573799.091**
									Total Amount	**31385567**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on Data Rates and approved rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP